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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/779,478	09/779,478 02/09/2001		Toru Yamaguchi	018842.1162	9443
24735	7590	10/01/2002			
BAKER BO			EXAM	EXAMINER	
THE WARN	ER, SUITE		LEO, LEONARD R		
1299 PENNS WASHINGT		•		ART UNIT	PAPER NUMBER
	,			3743	
			DATE MAILED: 10/01/2002	DATE MAILED: 10/01/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

•				W\				
		Application No.	Applicant(s)	•				
		09/779,478	YAMAGUCHI ET /	AL.				
	Office Action Summary	Examiner	Art Unit					
		Leonard R. Leo	3743					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)🛛	Responsive to communication(s) filed on <u>02 J</u>	<u>uly 2002</u> .						
2a)⊠	This action is FINAL . 2b) This	is action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
·	on of Claims							
	Claim(s) <u>1-12</u> is/are pending in the application							
	4a) Of the above claim(s) <u>7-12</u> is/are withdrawn from consideration.							
<u> </u>	Claim(s) is/are allowed.							
	Claim(s) <u>1-6</u> is/are rejected.							
•	Claim(s) is/are objected to.	r alaction requirement						
	Claim(s) are subject to restriction and/or on Papers	election requirement.						
· · _	The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) 🗌 🤄	The oath or declaration is objected to by the Ex	aminer.						
Priority L	ınder 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)[☐ All b)☐ Some * c)☐ None of:		·					
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents	s have been received in Applicati	on No					
* 5	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen	-	,,						
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No Patent Application (PT					

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DETAILED ACTION

Claims 1-12 are pending, claims 7-12 remain withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Tomoko (JP 7-280,484)(Figure 5).

Response to Arguments

The rejection under 35 U.S.C. 112, second paragraph, is withdrawn in view of applicants' amendment to claim 5.

The rejection in view of Nagase et al is withdrawn. Applicants' remarks with respect to Nagase et al are not persuasive. However, the Examiner recognizes the claim requires "a length (T) of *each* connecting portion" must satisfy the claimed criteria. Nagase et al (Figure 7) discloses only the "upper" connecting portion meeting the claimed limitation, not the "lower" connecting portion.

Applicants' remarks with respect to Japanese document (7-280,484) are not persuasive. The Examiner fully understands the metes and bounds of the claims. However, applicants' perspective of JP '484 is hypocritical. Directly comparing JP '484 (Figure 5) or applicants' Prior Art Figure 13 with applicants' Figure 5, the determination of the length (T) of the connecting portion 26 or 27 are inconsistent. In accordance with the specification and claims 2, 4 and 8, applicants' Figure 5 measures the length (T) of *inside* connecting portion 26 effectively between

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second inclined plate 24a of one waving strip (in solid outline) and first inclined plate 22b of an adjacent waving strip (in dashed outline). Similarly with respect to the *inside* connecting portion 27, the length (T) is effectively between first inclined plate 22a of one waving strip and second inclined plate 24b of an adjacent waving strip. On the other hand, applicants determine the length (T) of JP '484 or Figure 13 with respect to the *outside* connecting portions, which contact the tube inner surface, a la claim 5.

The Examiner suggests applicants maintain consistency in measuring the connecting portions in both the instant invention and prior art. Furthermore, the length (T) of the connecting portions is not defined until the aforementioned dependent claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry of a general nature, relating to the status of this application or clerical nature (i.e. missing or incomplete references, missing or incomplete Office actions or forms) should be

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directed to the Technology Center 3700 Customer Service whose telephone number is (703) 306-5648.

Any inquiry concerning this Office action should be directed to Leonard R. Leo whose telephone number is (703) 308-2611.

LEONARD R. LEO PRIMARY EXAMINER ART UNIT 3743

September 28, 2002